

## SPECIFICATION AMENDMENTS

Please replace paragraph [0015] in the specification on page 5 of the application with the following paragraph:

**[0015]** One known way to cycle a multi-bed PSA unit is with rotary valves. PSA systems employing rotary valves are described in US Patent Nos. 4,925,464; 5,112,367 and 5,366,541. These patents describe devices that use a single rotary valve that rotates relative to a stationary port plate to direct gases to the various vessels in the PSA system as defined by the PSA cycle. U.S. Patent Application Serial No. 10/706,320, filed November 12, 2003, (~~Attorney Docket No. GP 303297~~), titled "Hydrogen Purification Process Using Pressure Swing Adsorption for Fuel Cell Applications," assigned to the assignee of this application, and herein incorporated by reference, discloses a PSA unit employing two rotary valves and defines a particular PSA cycle.

Please replace paragraph [0023] in the specification on page 7 of the application with the following paragraph:

**[0023]** Figure 2 is a plan view of the PSA unit shown in figure Figure 1 separated from the fuel processor system.

Please replace paragraph [0031] in the specification on page 10 of the application with the following paragraph:

**[0031]** The reformat gas on the line 52 is cooled in a heat exchanger 56 to the operating temperature of the PSA unit 12 (60°C-100°C) by a coolant stream on a line 62 applied to the heat exchanger 56. The heated cooling stream from the heat

exchanger 56 is provided on output line 64. The coolant stream on the line 62 can be air that is preheated and subsequently fed into the system 10 on the line 36. The heat exchanger 56 also acts as a condenser because the water in the reformat gas on the line 52 condenses as it is cooled. The cooled reformat gas leaves the heat exchanger 56 on a line 66 as a two-phase fluid consisting of a reformat gas and liquid water. The cooled reformat gas is applied to a separator 70 where the liquid water is separate from the reformat gas. The liquid water exits the separator 70 on a line 72. The water on the line 72 may then be reintroduced into the system 10 on the line 26, or any other place in the system 10 where water is used. The cooled reformat gas exits the separator 70 on a line 74, and is saturated with water vapor at a temperature between 60°C and 100°C.